



Bachelor of Science in Surveying and Topography

Department of Civil Engineering and Surveying
(138 credits)



FIRST YEAR FIRST SEMESTER			
CODE	COURSE	PRE- OR CO-REQUISITES	CR
MATE 3005 ó MATE 3171 & 3172	Pre Calculus/Calculus		5/6
QUIM 3131	General Chemistry I	C-MATE3171, C-QUIM3133	3
QUIM 3133	General Chemistry I Lab	C-QUIM 3131	1
INGL 3XXX	Placement Test		3
ESPA 3131/3102	Basic Spanish I		3
INGE 3011-L	Engineering Graphics I		2
EDFI _____	Physical Education Elective		1
TOTAL			17/18

SECOND SEMESTER			
CODE	COURSE	PRE- OR CO-REQUISITES	CR
MATE 3031	Calculus I	MATE 3005 ó MATE 3171 & 3172	4
ECON 3021	Principles of Economics I		3
GEOL 4015-LL	Geology for Engineers		3
INGL 3XXX	Placement Test		3
ESPA 3132 /3102	Basic Spanish II	ESPA 3131/3101	3
INGE 3012-L	Engineering Graphics II	INGE 3011	2
TOTAL			18

SECOND YEAR FIRST SEMESTER			
CODE	COURSE	PRE- OR CO-REQUISITES	CR
MATE 3032	Calculus II	MATE 3031	4
FISI 3171	Physics I	MATE 3031	4
FISI 3173-L	Physics I Lab	C- FISI 3171	1
INGE 3031	Applied Mechanics - Statics	MATE 3031	3
INGL 3XXX	Placement Test		3
INCI 4001-L	Geomatics I	MATE 3031, INGE 3012	3
TOTAL			18

SECOND SEMESTER			
CODE	COURSE	PRE- OR CO-REQUISITES	CR
MATE 3063	Calculus III	MATE 3032	3
FISI 3172	Physics II	FISI 3171	4
FISI 3174-L	Physics II Lab	FISI 3173, C-FISI 3172	1
INGE 3016	Algorithms & Computer Prog.		3
INGL 3XXX	Placement Test		3
INCI 4002-L	Geomatics II	INCI 4001, C-INGE 3016	3
EDFI _____	Physical Education Elective		1
TOTAL			18

THIRD YEAR FIRST SEMESTER			
CODE	COURSE	PRE- OR CO-REQUISITES	CR
INCI 4051	Geodesy I	INCI 4002	3
INCI 4061	Legal Aspects I	3rd year Student	3
INCI 4135	Elements of Optics in Surv. and Photography	FISI 3172	3
ASTR 4005	Astronomy I	FISI 3171	3
INCI 4055	Const. Management and Eng. I	INGE 3016	3
SOC. HUM.	Socio-Humanistic Elective		3
TOTAL			18

SECOND SEMESTER			
CODE	COURSE	PRE- OR CO-REQUISITES	CR
INCI 4071	Adjustment Computation I	INCI 4051, MATE 3063	3
INCI 4078	Topographic Drawing	INCI 4002	2
INCI 4007	Highway Location and Curve Design	INCI 4002	3
INCI 4081	Photogrammetry I	INCI 4002, INCI 4135	3
INCI 4087	Special Surveys	INCI 4002	3
SOC. HUM.	Socio-Humanistic Elec. (Ethics)	S-H (Ethics)	3
TOTAL			17

FOURTH YEAR FIRST SEMESTER			
CODE	COURSE	PRE- OR CO-REQUISITES	CR
INCI 4086	Introduction to Physical Geodesy	INCI 4071	3
INCI 4085	Theory of Map Projections	INCI 4051, MATE 3063	3
INCI 4059	Geodetic Astronomy	INCI 4051, ASTR 4005	3
ELEC. PROF.	Technical Elective for Surveying		3
ELEC. LIBRE	Free Elective		3
ELEC. LIBRE	Free Elective		3
TOTAL			18

SECOND SEMESTER			
CODE	COURSE	PRE- OR CO-REQUISITES	CR
ELEC. PROF.	Elective for Surveying		3
INCI 4018	Integrated Practice in Geomatics	CAPSTONE COURSE (SEE NOTE BELOW)	4
ELEC. LIBRE			3
ELEC. LIBRE			3
TOTAL			13

TOTAL 138
(August 2021)

C = Co-requisite

ELEC. LIBRE = Free Elective

ELEC.PROF. = Technical or Professional Elective

SOC. HUM. = Socio-Humanistic Elective

CAPSTONE = Having approved at least five courses from the following list:

INCI 4007, INCI 4059, INCI 4061, INCI 4078, INCI 4081, INCI 4085, INCI 4086 and INCI 4087.

CR = Credits

L = Course with Laboratory

LL = Course with laboratory that must be registered separately

S-H (Ethics) = Ethics course